## Figure 1A Neutrokine- $\alpha$

1	AAATTCAGGATAACTCTCCTGAGGGGTGAGCCAAGCCCTGCCATGTAGTGCACGCAGGAC
61	
121	
1	MDDSTEREQSRL
181	TTACTTCTTGCCTTAAGAAAAGAGAAGAAATGAAACTGAAGGAGTGTGTTTCCATCCTCC
13	T S C L K K R E E M K L K E C V S I <u>L P</u> CD-I
241	CACGGAAGGAAAGCCCCTCTGTCCGATCCTCCAAAGACGGAAAGCTGCTGGCTG
33	R K E S P S V R S S K D G K L L A A T L CD-I
301	TGCTGCTGGCACTGCTGTCTTGCTGCCTCACGGTGGTGTCTTTCTACCAGGTGGCCGCCC
53	L L A L L S C C L T V V S F Y Q V A A L
361 73	TGCAAGGGGACCTGGCCAGCCTCCGGGCAGAGCTGC  Q G D L A S L R A E L Q G H H A E K L P  CD-II
93 93	CAGCAGGAGCAGGACCCCCAAGGCCGGCCTGGAGGAAGCTCCAGCTGTCACCGCGGGAC  A G A G A P K A G L E E A P A V T A G L  CD-III
181	# #
113	TGAAAATCTTTGAACCACCAGCTCCAGGAGAAGGCAACTCCAGTCAGAACAGCAGAAATA KIFEPPAPGEGNSSQNSRNK
541 133	AGCGTGCCGTTCAGGGTCCAGAAGAACAGTCACTCAAGACTGCTTGCAACTGATTGCAG R A V Q G P E E T V T Q D C L Q L I A D
	CD-IV
501	ACAGTGAAACACCAACTATACAAAAAAGGATCTTACACATTTGTTCCATGGCTTCTCAGCT
153	SETPTIQKGSYTF <u>VPWLLS</u> F CD-V
561	TTAAAAGGGGAAGTGCCCTAGAAGAAAAAGAGAATAAAATATTGGTCAAAGAAACTGGTT
L73	K R G S A L E E K E N K I L V K E T G Y CD-VI
721	ACTTTTTTATATATGGTCAGGTTTTATATACTGATAAGACCTACGCCATGGGACATCTAA
193	F F I Y G O V L Y T D K T Y A M G H L I CD-VI CD-VII
781	TTCAGAGGAAGAAGGTCCATGTCTTTGGGGATGAATTGAGTCTGGTGACTTTGTTTCGAT
213	ORKKVHVFGDELSLVTLFRC
341	# GTATTCAAAATATGCCTGAAACACTACCCAATAATTCCTGCTATTCAGCTGGCATTGCAA
233	I O N M P E T L P N N S C Y S A G I A K

# Figure 1B Neutrokine- $\alpha$

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901	AACTGGAAGAAGGAGATGAAG	CTCCAAC	TTGCAAT	ACCAAGAGA	AAATGCACA	AATATCAC	960
253	LEEGDEI	0 L	AI	PRE	N A Q	I S L	272
	C	D-X					
			•				
961	TGGATGGAGATGTCACATTT	TTGGTG	CATTGAA	ACTGCTGTG.	ACCTACTTAC	CACCATGT	1020
273	D G D V <u>T F I</u>	GA	L K	L L			285
		CD-X	I				
	•			•			
1021	CTGTAGCTATTTTCCTCCCTT	TCTCTG	TACCTCT	AAGAAGAAA	GAATCTAACT	<b>FGAAAATA</b>	1080
	•						
1081	CCAAAAAAAAAAAAAAA	1100					

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1	MD	D	SI	Ð	R	E	Õ	S.	RΙ	Ι	S	С	L	K I	K R	E	E	M	K	L	K	E	C	V	S	I	Neutrokine a	alpha
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38 31 32 90 288 38 38	GALLVLAE	Q C L A K L K L	V L P	P V A A	G G G	V T A A	A Z G I V I G I G I A A		T L A V G M P K P K	F A A A	C A Q G G	L L L L	L I	H F C C H I E A A E A	G D D P P R R M	1110 V - Q K A A	I G E V V	G G T T	P L A A	Q - V E G	R T L	E R K K	E T E I I	F A S F F	1: P 1 D T (	20 LR - P 50 LA	TNFalpha TNFbeta LTbeta FasLigand Neutrokine a Neutrokine a	
€0 ■38 ■31 ■32 ■90 ■88 ■88 ■66 41 62 120	CALL VIL AEAE	Q C V A K I K I S I Q A H I	L V L P P P Q Q P P Q P P P P P P P P P P P	P V A S S Q S	G G G G	V T A A G	A 7 G I V I G I A C L A C L E	T C C C C C C C C C C C C C C C C C C C	T L A V G M P K P K	F - L F A A A K Q	C - A Q G G V R L I	L L L L R Q P	L I V I V I F I I E I I I I I I I I I I I I I I I	H F C C H I I E A A E E E E E E E E E E E E	G G D Q P R R M P P P P P P P P P P P P P P P P	110 V - Q K A A 140 T H E P	I G E V V	G G L T T	P L A A A A A A A A A A A A A A A A A A	Q - V E G G	R T L L T P E	E R K K	E T E I I K K L R	F - A S F F P	1: PID TIS EI	P S P S P S P S P S P S P S P S P S P S	TNFalpha TNFbeta LTbeta FasLigand Neutrokine a Neutrokine a TNFalpha TNFalpha TNFbeta LTbeta FasLigand	llpha llphasv
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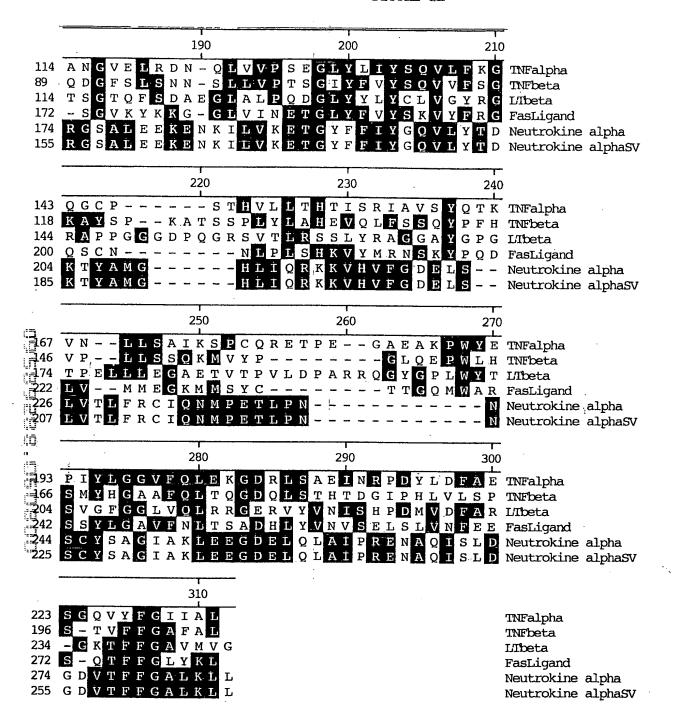
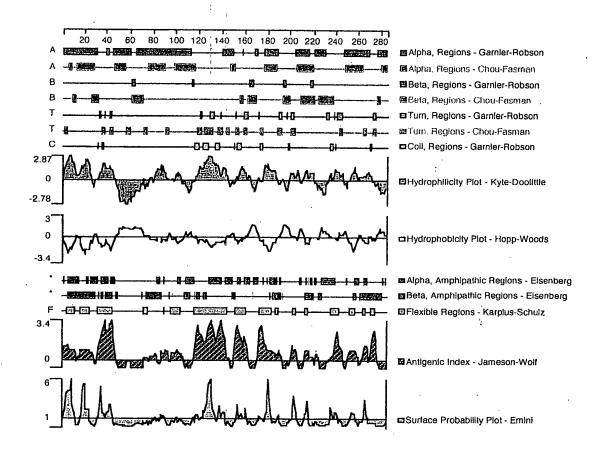


Figure 3 Neutrokine- $\alpha$ 



#### FIGURE 4 A

	1				50
HSOAD55R	A	GGNTAACTCT	CCTGAGGGGT	GAGCCAAGCC	
HNEDU15X		GGATAACTCT		GAGCCAAGCC	
HSLAH84R			GTTACTTTTT		CAGGTTTTAT
HLTBM08R			GGCCTGGAGG		
		:		121001001100	10101100000
	51				100
HSOAD55R	GTGCACGCAG	GACATCANCA	AACACANN	NNNCAGGAAA	
HNEDU15X			AACACAGA		
HSLAH84R			ATGGGACATC		
HLTBM08R			ACCAGCTCCA		
		•			
	101				150
HSOAD55R	CCTGTGGTCA	CTTATTCTAA	AGGCCCCAAC	CTTCAAAGTT	CAAGTAGTGA
HNEDU15X	CCTGTGGTCA	CTTATTCTAA	AGGCCCCAAC	CTTCAAAGTT	CAAGTAGTGA
HSLAH84R	CATGTCTTTG	GGGATGAATT	GAGTCTGGTG	ACTTTGTTTC	GATGTATTCA
HLTBM08R	GAACAGCAGA	AATAAGCGTG	CCGTTCAGGG	TCCAGAAGAA	ACAGTCACTC
	151				200
HSOAD55R	TATGGATGAC	TCCACAGAAA	GGGAGCAGTC	ACGCCTTACT	TCTTGCCTTA
HNEDU15X	TATGGATGAC		GGGAGCAGTC		
HSLAH84R			CCAATAATTC		
HLTBM08R	AAGACTGCTT	GCAACTGNTT	GCAGACAGTG	AAACACCAAC	TATACAAAAA
				•	
	201	1			250
HSOAD55R			CTGNAAGGAG		
HNEDU15X			CT.GAAGGAG		
HSLAH84R			GATGAAC		
HLTBM08R	GGCTCCCTTC	TGNTGCCACA	TTTGGGCCAA	GGAATGGAGA	GATTTCTTCG
	251				200
HSOAD55R		СССФСФХФСС	GATCCTCCAA	N'CACCCAAAC	300
HNEDU15X			GATCCTCCAA		
HSLAH84R		+	GGGATGGAGA		
HLTBM08R			CTCTTCAGAT		
	Tercommen	TTTTGCCAAA	CICIICAGAI	ACICITINCI	CICIGGGAAT
	301	•			350
HSOAD55R	CAACCTTGNT	GNTGGCATTG	ТСТТСТТССТ	GNCTCAAGGT	
HNEDU15X	CAACCTTGCT		CTGTCTTGCT		
HSLAH84R	CATTGAAACT		NCTTACANCA		
HLTBM08R			GATTNACACA		
	351				400
HSOAD55R					
HNEDU15X			AGGGGACCTG		
HSLAH84R			TCTTAGGAAG		
HLTBM08R	AAGTTTTAAA				

#### FIGURE 4B

	401				450
HSOAD55R	• • • • • • • • • • •				
HNEDU15X	GCAGGGCCAC	CACGCGGAGA	AGCTGCCAGC	AGGAGCAGGA	GCCCCCAAGG
HSLAH84R	ATAACCCAAA	AAAANNTTAA	ANGGGTANGN	GNNANANGNG	GGGNNGTTNN
HLTBM08R	CAAGGNACTG	GTTANTTTNT	AAATATGGTC	AGGTTTNTAT	ANCTGGTAGG
		1			
	451 .				500
HSOAD55R	• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
HNEDU15X	CCGGCCTGGA	GGAAGCTCCA	GCTGTCACCG	CGGGACTGAA	AATCTTTGAA
HSLAH84R	CNNGNNGNNT	TTTNGGNNTA	TNTTNTNNTN	GGGNNNNGTA	AAAATGGGGC
HLTBM08R				NCNNTCTTTT	
	501	•			550
HSOAD55R	•••••		• • • • • • • • • • •		
HNEDU15X	CCACCAGCTC	CAGGAGAAGG	CAACTCCAGT	CAGAACAGCA	GAAATAAGCG
HSLAH84R	CNANGGGGGN	TTTTT			
HLTBM08R					
		•			
	551		•		600
HSOAD55R	• • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • •		
HNEDU15X	TGCCGTTCAG	GGTCCAGAAG	AAACAGTCAC	TCAAGACTGC	TTGCAACTGA
HSLAH84R	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • •	
HLTBM08R	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
HEODEED	601				650
HSOAD55R	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
HNEDU15X	•••••			AAGGATCTTA	
HNEDU15X HSLAH84R	•••••			AAGGATCTTA	
HNEDU15X	•••••			AAGGATCTTA	
HNEDU15X HSLAH84R	TTGCAGACAG			AAGGATCTTA	CACATTTGTT
HNEDU15X HSLAH84R HLTBM08R	•••••			AAGGATCTTA	
HNEDU15X HSLAH84R HLTBM08R HSOAD55R	TTGCAGACAG	TGAAACACCA	ACTATACAAA		CACATTTGTT
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X	TTGCAGACAG	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	CACATTTGTT 700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R	TTGCAGACAG	TGAAACACCA	ACTATACAAA		CACATTTGTT 700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X	TTGCAGACAG	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	CACATTTGTT 700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R	TTGCAGACAG	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	CACATTTGTT  700  AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R	TTGCAGACAG  651  CCATGGCTTC	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	CACATTTGTT 700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R	TTGCAGACAG  651  CCATGGCTTC  701	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X	TTGCAGACAG  651  CCATGGCTTC  701	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R	TTGCAGACAG  651  CCATGGCTTC  701	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R	TTGCAGACAG  651  CCATGGCTTC  701	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R	TTGCAGACAG  651  CCATGGCTTC  701	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R	TTGCAGACAG  651  CCATGGCTTC  701  TAAAATATTG	TGAAACACCA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA 750 GGTCAGGTTT
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R	TTGCAGACAG  651  CCATGGCTTC  701  TAAAATATTG	TCAGCTTTAA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA 750 GGTCAGGTTT
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R	TTGCAGACAG  651  CCATGGCTTC  701  TAAAATATTG  751  TATATACTGA	TCAGCTTTAA	ACTATACAAA	GCCCTAGAAG	700 AAAAAGAGAA 750 GGTCAGGTTT
HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R HSOAD55R HNEDU15X HSLAH84R HLTBM08R	TTGCAGACAG  651  CCATGGCTTC  701  TAAAATATTG  751  TATATACTGA	TGAAACACCA  TCAGCTTTAA  GTCAAAGAAA  TAAGACCTAC	ACTATACAAA	GCCCTAGAAG TTTTATATAT ATCTAATTCA	700 AAAAAGAGAA 750 GGTCAGGTTT

#### FIGURE 4C

	801				850
HSOAD55R HNEDU15X	CMCCAMCMCM				
HSLAH84R		TTGGGGATGA			
HLTBM08R	•••••		• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • •	• • • • • • • • • • •
	851				900
HSOAD55R	• • • • • • • • • •		• • • • • • • • • • •		
HNEDU15X	TCAAAATATG	CCTGAAACAC	TACCCAATAA	TTCCTGCTAT	TCAGCTGGCA
HSLAH84R	• • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
HLTBM08R	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	901				950
HSOAD55R	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
HNEDU15X		GGAAGAAGGA			
HSLAH84R	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •
HLTBM08R		•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	951				1000
HSOAD55R	• • • • • • • • • •	• • • • • • • • •		• • • • • • • • • •	• • • • • • • • • •
HNEDU15X		TATCACTGGA			
HSLAH84R	• • • • • • • • • •	• • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	
HLTBM08R	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	1001				1050
HSOAD55R		• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • • •	
HNEDU15X		CCTACTTACA		AGCTATTTTC	CTCCCTTTCT
HSLAH84R	• • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •
HLTBM08R	• • • • • • • • •	•••••	• • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •
	1051				1100
HSOAD55R	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • •	·····	
HNEDU15X	CTGTACCTCT	AAGAAGAAAG		AAAATACCAA	AAAAAAAAA
HSLAH84R	••••••	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •
HLTBM08R	• • • • • • • • • •	•••••	••••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	1101			ı	
HSOAD55R			•		•
HNEDU15X	AAAAA				
HSLAH84R	• • • • •				,
HLTBM08R	• • • • •				

#### Figure 5A Neutrokine-αSV

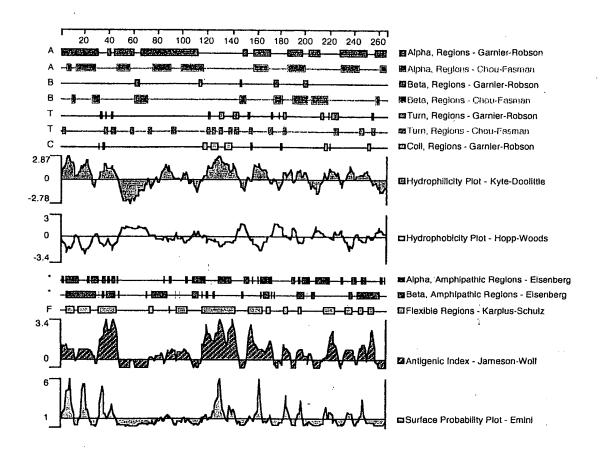
			TTO TO	CTC	CAC	מממהי	אמה	GGZ	AGCE	CTC	ACC	CCT	רידי א כי	יתיתי	שיייייי	ברריי	מ מידיר	CAZ	ΔΔ	ממר
1	ľA	'GGA	TGA	CIC	CAC	AGE	trary.			7010			. 1110		.110	,,,,,	. 1 11	10,1	77 77 J.	0110
1	M	. D	D	S	T	E	R	$\mathbf{E}$	Q	s	R	L	$\mathbf{T}$	S	C	L	K	K	R	E
61	GA	<b>LAA</b>	'GAA	ACT	GAA	GGA	GTG	TGT	TTC	CAT	CCI	CCC	CACG	GAA	GGA	AAG	CCC	CTC	TG'	rcc
21	E	M	K	L	K	E	С	V	S	I	L	P	R	ĸ	E	s	_ P	S	v	F
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											_			_						
21	TC	CTC	CAA	AGA	CGG	AAA	GCT	GCT	GGC	TGC	:AAC	רייים	GCT	GCT	GGC	'Δርኅ	יכירים. •	יכזיר	יתשוי	201
41			K			K		·L		A	T	L	L		A			s		
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81 61	7	CAC											'GCA							
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											•									
1	GC	AGA	GCT	GCA	GGG	CCA	.CCA	.CGC	GGA	GAA	GCT	GCC	AGC	AGG	AGC	AGG	AGC	CCC	CA	AGG
1	A	Е	L	Q	G	H	H	A	E	K	Ļ	P	A	G	A	G	<u>A</u>	P	K	A
	CD	-II														CI	)-I)	ΙI		
1	GG	CCT	GGA	GGA	AGC	TCC	AGC	TGT	'CAC	CGC	GGG	ACT	'GAA	AAT	СТТ	TGA	ACC	ACC	AGO	CTC
1	G					P		v			G			I	F	E	P	P	A	P
	CD-I										-	_		-	_	_	-	-		_
				#							_									
	GC	AGA	AGG	# CAA	ርጥር	CAG	•	GAA	CAG	CAC	444	ላ ልጥ	GCC	• ሞሮሶ	የርጥ	מישיח	ርር -	ምርር	יםמ	200
1.													GCG							
1	GG G		AGG G	# CAA N	CTC S	CAG S	TCA Q	gaa N	CAG S		AAA N				CGT V			TCC P	AGA E	AAG E
1																				
1	G	Е	G	N .	s	S	Q	N	S	R	N	K	R	A .	V	Q	G	P	Е	E
1 1	G AC	E AGG	G ATC	N TTA	s CAC	S ATT	Q TGT	n TCC	s ATG	R GCT	n TCT	k Cag	R CTT	A TAA	V AAG	Q GGG	G AAG	P TGC	E CC1	E TAG
1 1	G	E AGG	G	N .	s	S	Q TGT	n TCC	s ATG	R GCT	n TCT	k Cag	R CTT F	A TAA K	V AAG	Q GGG	G AAG	P TGC	E CC1	E TAG
1 1	G AC	E AGG	G ATC	N TTA	s CAC	S ATT	Q TGT	n TCC	s ATG	R GCT	n TCT	k Cag	R CTT F	A TAA	V AAG	Q GGG	G AAG	P TGC	E CC1	E TAG
1 1 1 1	G AC T	E AGG G	G ATC S	N TTA Y	S CAC T	S ATT F	Q TGT <u>V</u>	TCC	S ATG W	R GCT L	n TCT L	K CAG S	R CTT F CD	TAA K -IV	V AAG R	Q GGG G	G AAG S	P TGC A	E CCI	FAG E
1 1 1	G AC T GA	E AGG G AAA	G ATC S AGA	N TTA Y GAA	S CAC T	S ATT F	Q TGT V ATT	TCC P GGT	S ATG W	R GCT L AGA	TCT L AAC	K CAG S	R CTT F CD	TAA K -IV	V AAG R	Q GGG G	G AAG S	P TGC A	E CCI	FAG E
11 21 21 31	G AC T GA	E AGG G AAA K	G ATC S AGA	N TTA Y	S CAC T	S ATT F	Q TGT V ATT	TCC P GGT	S ATG W	R GCT L AGA	TCT L AAC	K CAG S	R CTT F CD	TAA K -IV	V AAG R	Q GGG G	G AAG S	P TGC A	E CCI L TC	TAG E
1 1 1 1	G AC T GA	E AGG G AAA K	G ATC S AGA	N TTA Y GAA	S CAC T	S ATT F	Q TGT V ATT	TCC P GGT	S ATG W	R GCT L AGA	TCT L AAC	K CAG S	R CTT F CD	TAA K -IV CTT	V AAG R	Q GGG G	G AAG S	P TGC A	E CCI L TC	TAG E
1 1 1	G AC T GA	E AGG G AAA K	G ATC S AGA	N TTA Y GAA	S CAC T	S ATT F	Q TGT V ATT	TCC P GGT	S ATG W	R GCT L AGA	TCT L AAC	K CAG S	R CTT CD TTA	TAA K -IV CTT	V AAG R	Q GGG G	G AAG S	P TGC A	E CCI L TC	TAG E
1 1 1 1	G AC T GA E CD-	E G G AAA _K IV	G ATC S AGA E	N . TTA Y . GAA	S T TAA K	S ATT F AAT	Q TGT V . ATT	TCC P GGT V	S ATG W CAA K	R GCT L AGA E	TCT L AAC	K CAG S TGG	R CTT CD TTA	TAA K -IV CTT F V	V AAG R TTT	Q GGG G TAT	G AAG S ATA Y	P TGC A TGG	E CCT L TCA	TAG E V
1 1 1 1 1	G AC T GA E CD-	E AGG G AAA K IV ATA	G ATC S AGA E	N TTA Y GAA N TGA	S CAC T TAA K	S ATT F AAT I	Q TGT V ATT L CTA	TCC P GGT V	S ATG W CAA K	R GCT L AGA E	TCT L AAC T	K CAG S TGG G	R CTT CD TTA	TAA K -IV CTT F V TCA	V AAG R TTT F	Q GGG G TAT I	G AAG S . ATA Y . GAA	TGC A TGG G	E CCT	FAG E V V
1 1 1 1 1	G AC T GA E CD-	E AGG G AAA K IV ATA	G ATC S AGA E	Y GAA N TGA	S CAC T TAA K	S ATT F AAT I GAC	Q TGT V ATT L CTA	TCC P GGT V	S ATG W CAA K	R GCT L AGA E	TCT L AAC T	K CAG S TGG G	R CTT CD TTA	TAA  K -IV CTT F V .TCA	V AAG R TTT F	Q GGG G TAT I	G AAG S . ATA Y . GAA	TGC A TGG G	E CCT	FAG E V V
1 1 1 1 1	G AC T GA E CD-	E AGG G AAA K IV ATA	G ATC S AGA E	Y GAA N TGA	S CAC T TAA K	S ATT F AAT I GAC	Q TGT V ATT L CTA	TCC P GGT V	S ATG W CAA K	R GCT L AGA E	TCT L AAC T	K CAG S TGG G	R CTT CD TTA	TAA  K -IV CTT F V .TCA	V AAAG R TTTT F	Q GGG G TAT I	G AAG S ATA Y	TGC A TGG G	E CCT	FAG E V V
1 1 1	GAC T GAC TT.	E AGG G AAA K IV ATA	G ATC S AGA E TAC	Y GAAN N TTGA D C	S CAC T TAA K	S ATT F AAT I GAC	Q . TGT V . ATT L . CTA Y	TCC P GGT V CGC	S ATG	R GCT L AGA E GGG	N TCT L AAAC T ACA	K CAG S TGG G TCT L	R CTT CD TTA	A  TAA  K  -IV  CTT  F  V  CCTT  CCTC  CCC	V AAAG R TTTT F GAGG R -VI	Q GGG G TAT. I GAA K	G . AAAG S . ATA Y . GAAA K .	P TGC A TGG G V	E CCTL C	FAGGAGG
1 1 1 1 1	GAC T GA CD TT L	E AGG G AAA K IV ATA Y TGG	G ATC S AGA E TAC T	Y GAA N TGA  TGA  TGA	S CAC T TAA K CD-V	S ATT F AAT I GAC	Q . TGT V . ATT L . CTA Y	TCC P GGT V CGC A	S ATG	R GCT L AGA E GGG G	N TCT L AAAC T ACA H	K CAG S TGG G TCT L	R CTT F CD TTA Y CD- AAT I	A  K  -IV  CTT  F  V  CCT  CCT  CCT  CCT  CCT  C	V AAAG R TTTT F GAGG RVI	Q GGG G TAT I GAA K I	G AAAG S ATAA Y . GAAA K . TAT	P TGC A TGG G V GCC	E CCT L TCF O CCF	PAGE V V V V V V V V V V V V V V V V V V V
1 1 1 1 1 1 1	GAC T GAC E CD- TT L TT F	E AGG G AAAA IV ATA Y TGG G	G ATC S AGA E TAC T	Y GAAN N TTGA D C	S CAC T TAA K CD-V	S ATT F AAT I GAC	Q . TGT V . ATT L . CTA Y	TCC P GGT V CGC A	S ATG W CAA K CAT M	R GCT L AGA E GGG G	N TCT L AAC T ACA H GTT F	K CAG S TGG G TCT L TCG R	R CTT F CD TTA Y CD AAT I ATG	A  K  -IV  CTT  F  V  CCT  CCT  CCT  CCT  CCT  C	V AAAG R TTTT F GAGG RVI	Q GGG G TAT I GAA K I	G AAAG S ATAA Y . GAAA K . TAT	P TGC A TGG G V GCC	E CCT L TCF O CCF	PAGE V V V V V V V V V V V V V V V V V V V
1 1 1 1 1 1	GAC T GA CD TT L	E AGG G AAAA IV ATA Y TGG G	G ATC S AGA E TAC T	Y GAA N TGA  TGA  TGA	S CAC T TAA K CD-V	S ATT F AAT I GAC	Q . TGT V . ATT L . CTA Y	TCC P GGT V CGC A	S ATG W CAA K CAT M	R GCT L AGA E GGG G	N TCT L AAC T ACA H GTT F	K CAG S TGG G TCT L TCG R	R CTT F CD TTA Y CD- AAT I	A  K  -IV  CTT  F  V  CCT  CCT  CCT  CCT  CCT  C	V AAAG R TTTT F GAGG RVI	Q GGG G TAT I GAA K I	G AAAG S ATAA Y . GAAA K . TAT	P TGC A TGG G V GCC	E CCT L TCF O CCF	PAGE V V V V V V V V V V V V V V V V V V V
1 1 1 1 1	G AC T GA E CD-TT F CCD-V	E AGG G AAAA IV ATA Y TGG G III	G ATC S AGA E TAC T GGA D	Y GAA N TGA TGA TGA TGA TGA	S CAC T IAA K CD-V ATTV	S ATT F AATT  GAC T GAG S	Q . TGT V . ATT L . CTA Y . TCT L .	TCC P GGT V CGC A	S ATG	R GCT L AGA E GGG G TTT	N TCT L AACA T ACA H GTT C	K CAG S TGG G TCT L TCG R D-V	R CTT F CD TTA Y CD- AAT I ATG	A  . TAA  K -IV . CTT F V . TCA O CD . TAT I	V AAAG R TTTT F GAGG RVI TCA	Q GGG G TAT: I GAA K I	G . AAG S . ATA Y . GAAA K . TAT M	TGG A TGG G C V GCC P	E CCTL L CCA H TGA E	TAG TAGG V V V V
	GACCDVTT.	E AGG G AAAA K IV ATA Y TGG G III	G ATC S AGA E TAC T GGA D # CAA	Y . TTA Y . GAA N . TGA D . TGA E . TAA	S CAC T IAA K IAA K CD-V ATTC	S ATT F AAAT I GAC T GAG S CTG	Q . TGT V	N TCC P GGT V CGC A TTC	S CAAG K CAT M GAC T AGC	R GCT L AGA E GGG G TTT L	N .TCT L .AAC T .ACA H .CTT C .CAT	K CAG S TGG G TCT L TCG R D-V	R CTT F CD TTA Y CD- AAT I ATG LIII	TAA  K -IV CTT F V . TCA O CD . TAT I	V AAAG R TTTT F GAGG RVI TCA	Q GGG G TAT. I GAA K I AAA	G . AAAG S . ATAA Y	P TGC A TGG G V GGCC P	E CCT L C C E E E E E E E E E E E E E E E E E	E LGG V
1 1 1 1 1 1	GACCDVTT.	E AGG G AAAA K IV ATA Y TGG G III	G ATC S AGA E TAC T GGA D	Y . TTA Y . GAA N . TGA D . TGA E . TAA	S CAC T IAA K IAA K CD-V ATTC	S ATT F AATT I GAC T CTG C	Q . TGT V	N TCC P GGT V CGC A GGT TTC	S CAAG K CAT M GAC T AGC	R GCT L AGA E GGG G TTT L	N .TCT L .AAC T .ACA H .CTT C .CAT	K CAG S TGG G TCT L TCG R D-V	R CTT F CD TTA Y CD- AAT I ATG	TAA  K -IV CTT F V . TCA O CD . TAT I	V AAAG R TTTT F GAGG RVI TCA	Q GGG G TAT. I GAA K I AAA	G AAG S AATA Y GAA K TATT M AGG G	TGC A TGG G V GCC P AGA	E CCT L C C E E E E E E E E E E E E E E E E E	E LGG V
1 1 1 1 1 1	GACCDVTT.	E AGG G AAAA K IV ATA Y TGG G III	G ATC S AGA E TAC T GGA D # CAA	Y . TTA Y . GAA N . TGA D . TGA E . TAA	S CAC T IAA K IAA K CD-V ATTC	S ATT F AATT I GAC T CTG C	Q . TGT V	N TCC P GGT V CGC A GGT TTC	S CAAG K CAT M GAC T AGC	R GCT L AGA E GGG G TTT L	N .TCT L .AAC T .ACA H .CTT C .CAT	K CAG S TGG G TCT L TCG R D-V	R CTT F CD TTA Y CD- AAT I ATG LIII	TAA  K -IV CTT F V . TCA O CD . TAT I	V AAAG R TTTT F GAGG RVI TCA	Q GGG G TAT. I GAA K I AAA	G AAG S AATA Y GAA K TATT M AGG G	P TGC A TGG G V GGCC P	E CCT L C C E E E E E E E E E E E E E E E E E	E LGG V
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	E AGG G AAAA IV ATA Y TGG G III ACCC	G ATC S AGA E TAC T CAA N	Y GAA N TGA C TGA E TAA N	S CAC T IAA K CD-V ATTV L ITCC S	S ATT F AAAT I GAG S CTG C C	Q . TGT V	TTCC P GGT V CGC A TTCC S IX	S CAA K CAT M GAC T AGC A	R GCT L AGA E GGG G TTT L TGG	N . TCT . AACC T . ACCA H . CTT . CAT I	K CAG S TGG G TCT L TCG R D-V TGC	R CTT F CD TTA Y CD- AAT I ATG LIII AAAA K	A  TAAA  K  -IV  CTT  F  V  TCA  CD  TAT  I  ACT  L	V AAG R TTT F GAGG RVI TCA Q GGAA	Q GGG G TAT I GAA K I AAA N	G . AAAG S . ATA Y . GAAA K . TATT M . AGG G . CI	TGC A TGG G V GCC P AGA D D-X	E CCTL TCA O CCA H TGA E	EAGG V V AAAA T
111111111111111111111111111111111111111	GACCD-VTT.	E AGG G AAA K IV ATA Y TGG G III ACC	G ATC S AGA E TAC T GGA D # CAA N TGC.	Y . GAA' N . TGA D . TGA E . TAA' N . AAT	S CAC T TAA K CD-V ATTC S ACC	S ATT F AATT I GAC T GAG S CTG C C C C AAG	Q . TGT V . ATT L CTA Y TCT L CTA Y AGA	TTCC P GGT V CGC A TTCC S IX	S CATG	R GCT L AGA E GGG G TTT L TGG G ACA	N . TCT . AAAC T . ACA H . GTT C . CAT I . AAAT	K CAG S TGG G TCT L TCG R D-V TGC A	R CTT F CD TTA Y CD- AAT I ATG LIII AAAA K	A  TAA  K  -IV  CTT  F  V  TCA  CD  TAT  I  ACT  GGA	V AAG R TTT F GAGG RVI TCA Q GGAA E	Q GGG G TAT I GAA K I AAA N	G . AAAG S . ATA Y . GAAA K . TATT M . AGG G . CI	TGC A TGG G V GCC P AGA D D-X	E CCTL TCA O CCA H TGA E	EAGG V V AAAA T
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GACCD-VTT.	E AGG G AAA K IV ATA Y TGG G III ACC	G ATC S AGA E TAC T GGA D # CAA N TGC.	Y . GAA' N . TGA D . TGA E . TAA' N . AAT	S CAC T TAA K CD-V ATTC S ACC	S ATT F AATT I GAC T GAG S CTG C C C C AAG	Q . TGT V . ATT L CTA Y TCT L CTA Y AGA	TTCC P GGT V CGC A TTCC S IX	S CATG	R GCT L AGA E GGG G TTT L TGG G ACA	N . TCT . AAAC T . ACA H . GTT C . CAT I . AAAT	K CAG S TGG G TCT L TCG R D-V TGC A	R CTT F CD TTA Y CD- AAT I ATG LIII AAAA K	A  TAA  K  -IV  CTT  F  V  TCA  CD  TAT  I  ACT  GGA	V AAG R TTT F GAGG RVI TCA Q GGAA E	Q GGG G TAT: I GAAA I AAAA N	G . AAAG S . ATA Y . GAAA K . TATT M . AGG G . CI	TGC A TGG G G G F AGA D D X CAC	E CCTL TCA O CCA H TGA E	TAG E AGG V ATG V AAA T
11 11 11 11 11 11 11 11 11 11 11 11 11	GACCD-VTT.	E AGG G AAA K IV ATA Y TGG G III ACC	G ATC S AGA E TAC T GGA D # CAA N TGC.	Y . GAA' N . TGA D . TGA E . TAA' N . AAT	S CAC T TAA K CD-V ATTC S ACC	S ATT F AATT I GAC T GAG S CTG C C C AAG	Q . TGT V . ATT L CTA Y TCT L CTA Y AGA	TTCC P GGT V CGC A TTCC S IX	S CATG	R GCT L AGA E GGG G TTT L TGG G ACA	N . TCT . AAAC T . ACA H . GTT C . CAT I . AAAT	K CAG S TGG G TCT L TCG R D-V TGC A	R CTT F CD TTA Y CD- AAT I ATG LIII AAAA K	A  TAA  K  -IV  CTT  F  V  TCA  CD  TAT  I  ACT  GGA	V AAAG R TTTT F GAGG -VI TCA O GGAA E	Q GGG G TAT: I GAAA I AAAA N	G . AAG . AATA	TGC A TGG G G G C C C C C C C C C C C C C C C	E CCTL TCP O CCP H TGP E TGP	TAG V V V AAA T ACC I
	GACCD-VTT.	E AGG G AAA K IV ATA Y TGG G III ACC	G ATC S AGA E TAC T GGA D # CAA N TGC.	Y GAAN O TGA TGA TGA TAAN N AAT	S CAC T TAA K CD-V ATTC S ACC	S ATT F AATT I GAC T GAG S CTG C C C AAG	Q . TGT V . ATT L CTA Y TCT L CTA Y AGA	TTCC P GGT V CGC A TTCC S IX	S CATG	R GCT L AGA E GGG G TTT L TGG G ACA	N . TCT . AAAC T . ACA H . GTT C . CAT I . AAAT	K CAG S TGG G TCT L TCG R D-V TGC A	R CTT F CD TTA Y CD- AAT I ATG LIII AAAA K	A  TAA  K  -IV  CTT  F  V  TCA  CD  TAT  I  ACT  GGA	V AAAG R TTTT F GAGG -VI TCA O GGAA E	Q GGG G TAT: I GAAA I AAAA N	G . AAG . AATA	TGC A TGG G G G C C C C C C C C C C C C C C C	E CCT L TCA O CCA H TGA E TGA E ATT	TAG V V V AAA T ACC I
	G AC T GA CD- TT L CA CA CA	E AGG G AAA K IV ATA Y TGG G III ACCC P	G ATC S AGA E TAC T T GGA N TGC.	TTTA Y GAA N . TGA D C . TGA E . TAA N . AAT. I -X	S CACC T TAA K CD-V ATT L TTCC S ACC	S ATT F AATT I GAC T C C C C C AAAG R	Q . TGT V . ATT L	TTCC P GGT V CGC A TTC S IX	S ATG W CAA K CAT M GAC T AGC A	R GCT L AGA E GGG G TTT T TGG Q ACA	N . TCT L . AAAC T . ACAH . CTT I . AAT. I	K CAG S TGG G TCT L TCG R D-V TGC A ATC	R CTT F CD TTA Y CD AAT I AAAA K ACT L	TAAACTT L	V AAAG R TTTT F GAGG -VI TCA O GGAA G	Q GGG G I I GAA K I AAA N AGA D	G AAG S ATA Y . GAAA K . TAT M . AGG CI . TGT V .	TGC A TGG G G G C P AGA D D X CAC	E CCT L TCF C C F E C C F E C C C F E C C C F E C C C C	TAGG V AAA T AAC L TT F XI
11 11 11 11 11 11 11 11 11 11 11 11 11	G AC T GA CD-V CT. L CA Q GG	E AGG G AAA K IV ATA Y TGG G III ACC P ACT L	G ATC S AGA E TAC T T CAA N TGC. A CD	TTTA Y GAA N TGA D C TGA E TAA N AAT I X GAA	S CACC T TAA K CD-V ATT L FTCC S ACC	S ATT F AATT I GAC T C C C C AAAG R GCT	Q . TGT V . ATT L	TTCC P GGT V CGC A TTC S IX	S ATG W CAA K CAT M GAC T AGC A	R GCT L AGA E GGG G TTT T TGG Q ACA	N . TCT L . AAAC T . ACAH . CTT I . AAT. I	K CAG S TGG G TCT L TCG R D-V TGC A ATC	R CTT F CD TTA Y CD- AAT I ATG LIII AAAA K	TAAACTT L	V AAAG R TTTT F GAGG -VI TCA O GGAA G	Q GGG G I I GAA K I AAA N AGA D	G AAG S ATA Y . GAAA K . TAT M . AGG CI . TGT V .	TGC A TGG G G G C P AGA D D X CAC	E CCT L TCF C CCF H TGF E TGF E CC F TGF E C	TAGG V AAA T AAC L TT F XI

#### Figure 5B Neutrokine-aSV

841	TCTGTACCTCTAAGAAGAAACTAACTGAAAATACCAAAAAAAA	900
	The state of the s	700

901 AAA 903

Figure 6 Neutrokine-asv

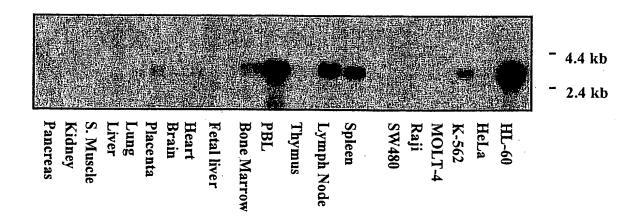


### Figure 7

#### a.

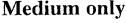
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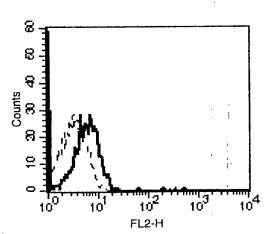
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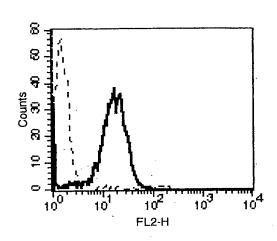
a.



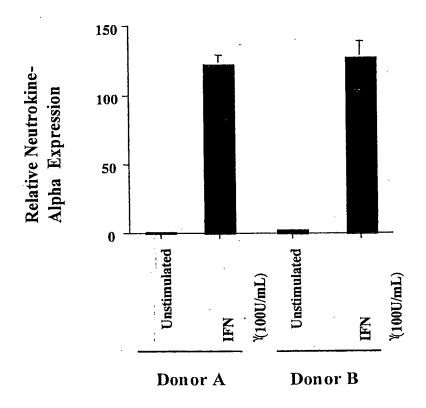




**IFN**γ (100 U/mL)

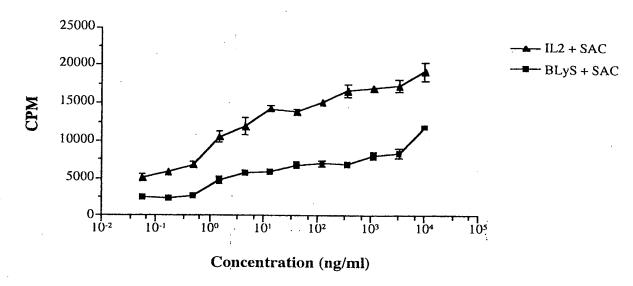


b.



### Figure 9

a.



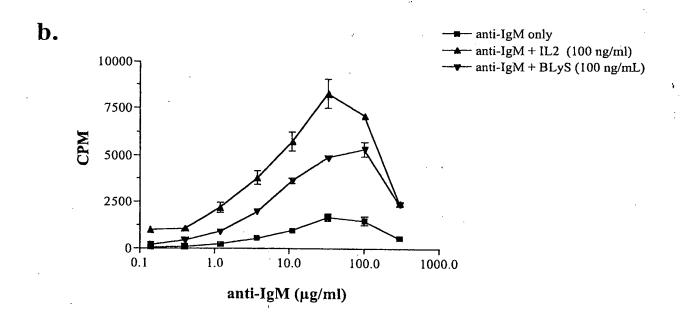
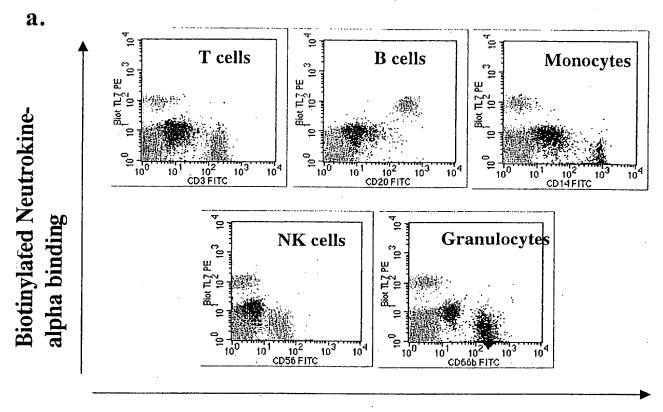


Figure 10



Hematopoietic lineage markers

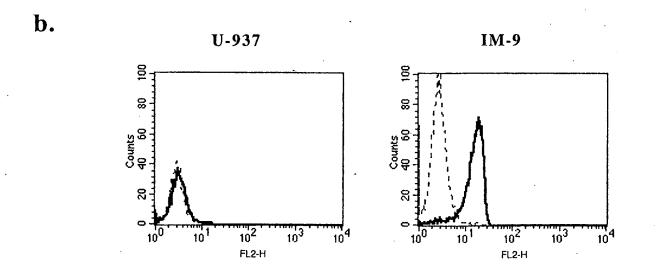


Figure 11

